



PART ELEVATION SHOWING BAY / SHIELD REFERENCES

FLASHING 5: Capping to coping and dressing to rear face of parapet wall.
Lead thickness 3.0 - 4.0mm (Equivalent code 6+)
Lap into gutter 120mm
Lap over front nosing, flashing 4 180mm - 200mm
Maximum width over 2500mm
Grth 1000mm
Distance of fixings from bottom of sheet 190mm - 200mm
Top fixings - 2 rows nails
Covering is not continuous below crowns
The coping covering

FLASHING 4: Undercloak to coping capping and dressing to front of coping.
Lead thickness 4.0 - 4.5mm (Equivalent code 8+)
Maximum width 170mm
(Note discontinuous behind shields)
Grth 520mm
Distance of fixings from head 20mm

FLASHING 3: Dressing to raised relief to parapet.
Lead thickness 4.0 - 4.5mm (Equivalent code 8+)
Lap above 45mm down to 0mm
Maximum width (central frieze) 2000mm
Grth 360mm
Distance of fixings from head 20mm to 2mm

FLASHING 2: To top of moulded plinth.
Lead thickness 2.0 - 3.0 mm (Equivalent code 4 to 6)
Lap above - 35mm
Max width - continuous 4860mm long
(Note discontinuous behind shields)
Grth - 270mm
Distance of fixing from head - 10mm

FLASHING 1: To cornice and plinth upstand.
Lead thickness 4.0 - 4.5mm (Equivalent code 8+)
Lap above - 40mm
Max width - 1670mm
Grth - 540mm
Distance of fixings from head - 10 to 15mm

No clips to front of nosing

Existing parapet and coping is reinforced clinker concrete with lead covering

Existing cornice is Portland stone

Bays 3 to 21 and crowns / shield 3 (up 21) together with the central relief of the winged helmeted Greek bust to bay 11 are to be repaired under this current contract.
All repairs to the front facade, where visible, are to be carried out using salvaged cast lead from the rear parapet cladding. New lead is to be cast lead.
The scope and extent of the repairs is preliminary, and detailed in the particular specification and the Bills of Quantities.

Repairs to brickwork and pointing behind the lower gutter parapet are to be carried out under this contract. Provisional allowances have been made.

Existing lightning conductor installation to be removed, adapted, revised, re-tested and certified by specialist.

Re-gild the following elements:
ER insignias to the lead shields.
Wings and feathered crown to the helmet of the central relief.
ER insignias to the brackets of the upper cast iron rainwater pipes.

FLASHING 5: Capping to coping.
Remove composite capping and rear dressing and cut to reduce girth for coping capping to approximately 620mm.
Relay capping on non-woven geotextile underlay and form wells at front and rear secured with stainless steel clips at 300mm centres.
Cross wells at maximum of 1500mm with stainless steel clips at 200mm centres.
Ensure that the covering extends under the crown ornamentation, and provide new cast lead (Code 6 equivalent) below crowns, where not exposed to view.
Lead weld dots to top of coping to maintain visual and historical evidence.

FLASHING 4: Undercloak to coping capping and dressing to front of coping.
Allow for replacing lead with salvaged material in lengths not exceeding 1500mm with 150mm vertical lap joints.
Allow for continuing flashings behind shields.
Fix at head with new washers and screws, plugged and screwed into top of new concrete coping section.
Redress to profiles and secure base with terne coated stainless steel clips at 300mm centres.
Lead weld lead dots to bottom edge to maintain historical evidence and appearance.

FLASHING 3: Dressing to raised relief frieze to parapet.
Lead weld additional section at head to side flashings and frieze panels 75mm to provide a minimum of 75mm lap by flashing 4 above.
Allow for leadwelding additional width to selvage of frieze panels, provisionally 75mm each side, to provide minimum of 150mm vertical laps with side panels.
New fixings at head with washers, plugged and screwed to concrete parapet at 50mm centres, minimum 25mm from top of sheet.
New terne coated stainless steel fixing clips at base of flashing, at 300mm centres (including at all lap joints).

FLASHING 2: To top of moulded plinth.
Allow for replacing existing flashings with re-used material from rear of parapet and removed flashing (the latter subject to thickness) minimum 3.5mm thickness (Equivalent code 7). The flashing girth is to be increased to not less than 350mm so that there is a minimum of 100mm lap by flashing 3.
Additionally, the flashing is to continue behind the shields and is to be in lengths not exceeding 1500mm, but set out to provide minimum 150mm vertical laps centered between the welded joints to the cornice covering flashing 1 below and secured with terne coated stainless steel clips at base of joints.
New fixings at head with washers, plugged and screwed into concrete parapet at 50mm centres, minimum 25mm from top of sheet.
All lead to be laid on non-woven geotextile underlay.

FLASHING 1: To cornice and plinth upstand.
Lead weld extension at head, approximately 100mm high to provide min. 100mm lap with flashing 2 and to enable welding to clip at nosing.
Lead sheet repaired and re-laid on non-woven geotextile membrane.
New fixings at head with washers, plugged and screwed into concrete parapet at 50mm centres, min. 25mm from top of sheet.
New stainless steel clips at nosing and to reform welded joints at existing locations.

Carry out a record survey of the existing leadwork with the CA and QS to determine all dimensions and faults found and agree with the CA/QS prior to proceeding to the next stage.
Remove all existing leadwork where parapet is being rebuilt, including all flashings, cappings, shields, crowns, swags, swords, sceptres and the main central detail of the helmeted Greek bust.
All ornate (removed) leadwork to be repaired in controlled conditions off site at the premises of the specialist leadwork contractor.
Unless agreed otherwise, lead flashings and coverings are to be repaired off site. Any site lead welding (if agreed) will be carried out at ground level, and the contractor is to comply with the Museum's not works permit procedures in every respect.
All replacement lead is to be cast lead to the equivalent codes stated.
All leadwork re-fixing is to be in accordance with the Lead Sheet Association recommendations contained in their document "Rolled Lead Sheet - The Complete Manual", a copy of which is to be retained on site.
The extent of repairs to the leadwork has been assessed from earlier investigation works and the Verica survey (which forms part of the tender documentation). The final extent of leadwork repairs will be agreed once full access is available, and will be reviewed against the approximate quantities and descriptions included in the particular specification and the Bills of Quantities.

Carefully demolish existing clinker concrete parapet and coping, retaining existing vertical reinforcement bars to parapet and tops of columns. Blast clean and treat retained reinforcement and provide new vertical and horizontal reinforcement as detailed on the Structural drawings.
Cast new parapet / coping to the original profiles including all moulded details and projecting panels.
Profiles and dimensions to be agreed.

NEW CLADDING 6: Cladding to rear of parapet.
Provide and fix new cast lead cladding (Code 6 equivalent not less than 2.65mm) to rear face of parapet, on non-woven geotextile membrane.
Grth approximately 750mm.
Head fix cladding with 2 rows of fixings with washers, plugged and screwed to the new coping section (lower fixings to be not less than 75mm from bottom edge of coping capping).
Form vertical welded joints at 600mm centres and secure with stainless steel clips.
Dress cladding over gutter skirting and secure with terne coated stainless steel clips at 400mm maximum centres.

EXISTING LEAD FLASHING DETAILS

PROPOSED LEAD FLASHING DETAILS

NOTES	
THE CONTRACTOR AND HIS SUB-CONTRACTORS ARE TO VERIFY ALL DIMENSIONS ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING MANUFACTURE	
AMENDMENTS	
THE BRITISH MUSEUM KEB PARAPET REPAIRS	
KING EDWARD VII BUILDING TYPICAL PARAPET SECTIONS	
scale A1: 1:5 & 1:200 A3: 1:10 & 1:400	date DECEMBER 2011
job no. 11-127	
drawing no. AB 1/2	
client THE TRUSTEES OF THE BRITISH MUSEUM	
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